

IN ERNATIONAL SEARCH REPORT

Interional Application No PCT/EP 03/50961

			PCT/EP 03	/50961	
A. CLASSI	FICATION OF SUBJECT MATTER H01H13/70				
110 /	11021120/70				
According to	o International Patent Classification (IPC) or to both national classi	fication and IPC			
	SEARCHED				
Minimum do	ocumentation searched (classification system followed by classific HO1H	ation symbols)			
2.0 ,					
Documental	tion searched other than minimum documentation to the extent tha	t such documents are incli	uded in the fields se	arched	
Electronic d	ata base consulted during the international search (name of data	base and, where practical	, search terms used)	
EPO-In	ternal, WPI Data				
	ENTS CONSIDERED TO BE RELEVANT			Relevant to claim No.	
Category *	Citation of document, with indication, where appropriate, of the	relevani passages		Helevant to daim No.	
X	US 4 362 911 A (GROSS JACK R ET AL)		1-4,6,7,		
	7 December 1982 (1982-12-07)		12,14		
Y	the whole document			9	
X	DATABASE WPI			1,2,5,8,	
	Section EI, Week 198907 Derwent Publications Ltd., Lond	on GR·		11,15	
	Class T04, AN 1989-052887	on, ab,			
l	XP002239792		1		
	& SU 1 415 258 A (MOROZ I V), 7 August 1988 (1988-08-07)				
Υ	abstract; figure			10,13	
Y	US 4 268 815 A (CHRISTIANSEN M TYRONE ET			9,10	
•	AL) 19 May 1981 (1981-05-19)			•	
	column 3, line 45 -column 4, li figure 2	ne 13;	-		
	119416 2	,			
		-/			
χ Furt	her documents are listed in the continuation of box C.	X Patent family i	members are listed i	n annex.	
• Special ca	alegories of cited documents:	'T' later document pub	lished after the inte	rnational fling date	
	ent defining the general state of the .art which is not dered to be of particular relevance	cited to understan	d not in conflict with ad the principle or the	eory underlying the	
'E' earlier	document but published on or after the international date	'X' document of partic	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to		
L document which may throw doubts on priority claim(s) or Involve which is cited to establish the publication date of another 'Y' documents.			ve step when the do utar relevance; the c	cument is taken alone laimed invention	
'O' docum	n or other special reason (as specified) ent referring to an oral disclosure, use, exhibition or	document is comb	bined with one or mo	ventive step when the	
P' docum	means ent published prior to the international filing date but	in the art.		us to a person skilled	
	actual completion of the International search		8' document member of the same patent family Date of mailing of the international search report		
1 April 2004			13/04/2004		
Name and mailing address of the ISA		Authorized Officer			
	European Patent Office, P.B. 5818 Patentiaan 2 NL - 2280 HV Rijswijk				
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	PCT/EP 03/50961			
C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT				
Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.			
US 4 679 030 A (VOLNAK WILLIAM M) 7 July 1987 (1987-07-07) column 4, line 66 -column 5, line 19; figure 6	13			
GB 2 133 216 A (NIPPON MEKTRON KK) 18 July 1984 (1984-07-18) the whole document	1,6,7,11			
US 4 517 421 A (MARGOLIN GEORGE D) 14 May 1985 (1985-05-14) the whole document	1			
WO 81 00787 A (MARSHALL E DESIGN INT LTD; MARSHALL E (GB)) 19 March 1981 (1981-03-19) the whole document	1			
US 4 348 557 A (SADO RYOICHI) 7 September 1982 (1982-09-07) column 4, line 56 -column 5, line 4; figure 1A	1			
US 4 520 248 A (WOELFEL ROBERT) 28 May 1985 (1985-05-28) the whole document	1			
	US 4 679 030 A (VOLNAK WILLIAM M) 7 July 1987 (1987-07-07) column 4, line 66 -column 5, line 19; figure 6 GB 2 133 216 A (NIPPON MEKTRON KK) 18 July 1984 (1984-07-18) the whole document US 4 517 421 A (MARGOLIN GEORGE D) 14 May 1985 (1985-05-14) the whole document WO 81 00787 A (MARSHALL E DESIGN INT LTD; MARSHALL E (GB)) 19 March 1981 (1981-03-19) the whole document US 4 348 557 A (SADO RYOICHI) 7 September 1982 (1982-09-07) column 4, line 56 -column 5, line 4; figure 1A US 4 520 248 A (WOELFEL ROBERT) 28 May 1985 (1985-05-28)			